## In the Claims

This listing of claims will replace all prior versions of claims listings in the application.

1. (Currently Amended) A method of radially expanding and plastically deforming a first tube,

a second tube, and a mechanical connection for coupling the first and second tubes, comprising:

coupling an insert to at least one of the first and second tubes, wherein the insert

comprises an inner core comprised of a first material, and an outer layer

comprised of a second material, and wherein the first material has a higher

melting point than the second material;

coupling the first and second tubes together using the mechanical connection;

radially expanding and plastically deforming the coupled first and second tubes; and

forming a metallurgical bond between the insert and at least one of the first and second

tubes by injecting energy into the insert prior to radially expanding and plastically

deforming the first and second tubes.

2. (Previously Presented) The method of claim 1, wherein the injected energy comprises thermal

and mechanical energy.

3. (Previously Presented) The method of claim 1, wherein the injected energy comprises thermal

and electrical energy.

4. (Previously Presented) The method of claim 1, wherein the injected energy comprises thermal

and magnetic energy.

5. (Previously Presented) The method of claim 1, wherein the injected energy comprises thermal

and electromagnetic energy.

6. (Previously Presented) The method of claim 1, wherein the injected energy comprises thermal

and acoustic energy.

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7. (Previously Presented) The method of claim 1, wherein the injected energy comprises thermal and vibrational energy.

## 8.-17. (Cancelled)

18. (Previously Presented) A method of radially expanding and plastically deforming a first tube having first threads, and a second tube having second threads, comprising:

coupling a first insert to the first threads;

coupling the first threads to the second threads to form a threaded connection by placing the first insert within a portion of the first threads;

heating the threaded connection sufficiently to melt at least a portion of the first insert; allowing the melted portion of the first insert to flow and solidify within the threaded connection;

placing the coupled first and second tubes within a preexisting structure; and then radially expanding and plastically deforming the coupled first and second tubes;

wherein the first insert comprises an inner core comprised of a first material, and an outer layer comprised of a second material, and wherein the first material has a higher melting point than the second material;

wherein the first insert comprises an outer layer of flux;

wherein the outer layer of the second material comprises an outer layer of flux;

wherein the first material is selected from the group consisting of aluminum, indium, bismuth, cadmium, lead, tin, brass, and bronze;

wherein the second material is selected from the group consisting of aluminum, indium, bismuth, cadmium, lead, tin, brass, and bronze; and

wherein the preexisting structure is selected from the group consisting of a wellbore casing, a pipeline, and a structural support.

19. (Currently Amended) An expandable tubular liner comprising a first tube having first threads, and a second tube having second threads coupled to the first threads; wherein the first threads are coupled to the second threads by the process of:

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## coupling a first insert to the first threads;

coupling the first threads to the second threads;

wherein the first insert comprises an inner core comprised of a first material, and an outer layer comprised of a second material, and wherein the first material has a higher melting point than the second material;

wherein the first insert comprises an outer layer of flux;

wherein the outer layer of the second material comprises an outer layer of flux;

wherein the first material is selected from the group consisting of aluminum, indium, bismuth, cadmium, lead, tin, brass, and bronze; and

wherein the second material is selected from the group consisting of aluminum, indium, bismuth, cadmium, lead, tin, brass, and bronze.

20. (Previously Presented) An apparatus comprising a preexisting structure coupled to a tubular liner, the tubular liner comprising a first tube including first threads, and a second tube including second threads, wherein the tubular liner is coupled to the preexisting structure by the process of:

coupling a first insert to the first threads;

coupling the first threads to the second threads to form a threaded connection by placing the first insert within a portion of the first threads;

heating the threaded connection sufficiently to melt at least a portion of the first insert; allowing the melted portion of the first insert to flow and solidify within the threaded connection;

placing the coupled first and second tubes within a preexisting structure; and then radially expanding and plastically deforming the coupled first and second tubes; wherein the first insert comprises an inner core comprised of a first material, and an outer layer comprised of a second material, and wherein the first material has a higher melting point than the second material;

wherein the first insert comprises an outer layer of flux;

wherein the outer layer of the second material comprises an outer layer of flux; wherein the first material is selected from the group consisting of aluminum, indium, bismuth, cadmium, lead, tin, brass, and bronze;

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wherein the second material is selected from the group consisting of aluminum, indium, bismuth, cadmium, lead, tin, brass, and bronze; and

wherein the preexisting structure is selected from the group consisting of a wellbore casing, a pipeline, and a structural support.

- 21. (New) The method of claim 1, wherein the insert comprises an outer layer of flux.
- 22. (New) The method of claim 1, wherein the outer layer of the second material comprises an outer layer of flux.
- 23. (New) The method of claim 1, wherein the first material is selected from the group consisting of aluminum, indium, bismuth, cadmium, lead, tin, brass, and bronze.
- 24. (New) The method of claim 1, wherein the second material is selected from the group consisting of aluminum, indium, bismuth, cadmium, lead, tin, brass, and bronze.